

## Commonwealth of Kentucky **Transportation Cabinet**

Frankfort, Kentucky 40622

Ernie Fletcher Governor

January 13, 2004

PCN 03-0787 CHANGE # 1

Subject:

Maxwell C. Bailey

Secretary of Transportation

McCracken County, FD04 073 0045 007-009

Letting December 12, 2003 Extended to January 23, 2004

Listed below are the enclosed changes on the subject project:

(1) Revised - Detail Sheets 2 Pages

(2) Revised - Special Note for PCC Pavement Inlay 4 Pages

(3) Revised - Traffic Control Plan 4 Pages

(4) Revised - Special Note Asphalt Milling and Texturing and Placing PCC Inlay and Liquidated Damages 1 Page

(5) Deleted - Special Notes for Traffic Inductance Loops 7 Pages and REPLACE with Signal Bid Item Notes and Detail 4 Pages

(6) Revised - Bid Items

If you obtained bid items from our Website, it is <u>imperative</u> that you download a new set of bid items before submitting them for bidding.

Your bid, to be considered, must be based upon the above-mentioned changes, and these changes are to be made a part of the bid proposal, which you submit to the Kentucky Department of Highways.

Specimen proposals may not be used for bidding purposes.

If you have any questions, please contact us at (502) 564-3500.

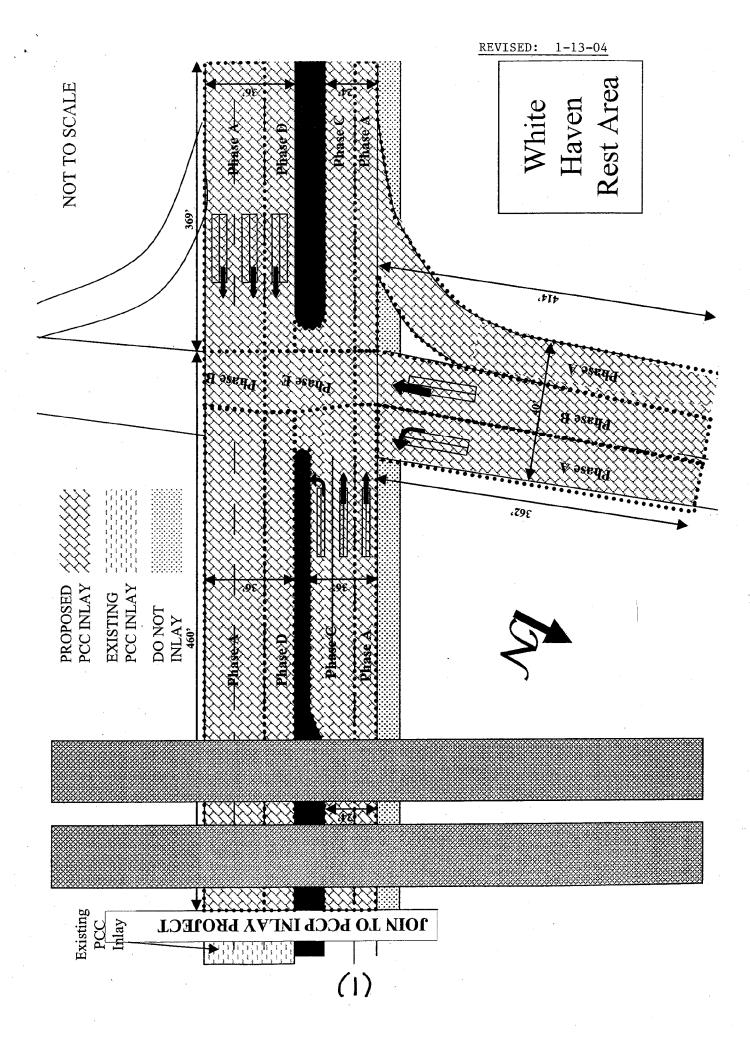
Sincerely,

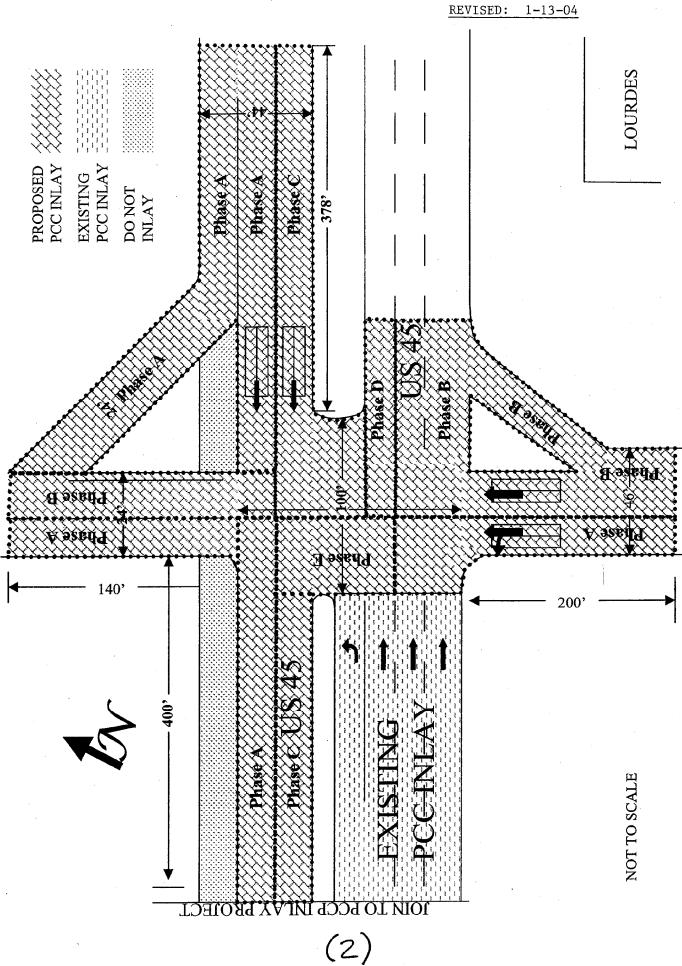
Rick Stansel

Director

Division of Contract Procurement

Enclosures RS:bc





REVISED: 1-13-04

## SPECIAL NOTES FOR PCC PAVEMENT INLAY MCCRACKEN COUNTY

FOO4 073-0045-007-009

#### I. DESCRIPTION

Except as specified in these notes, perform all work according to the Department's 2000 Standard Specifications, applicable Special Provisions and Special Notes, Standard Drawings and Sepia Drawings, and the drawings elsewhere in this proposal. Article references are to the Standard Specifications.

Furnish all materials, labor, and equipment for the following work: (1) Asphalt Milling and Texturing of existing pavement; (2) Installing traffic signal loop detectors; (3) Placing 4" PCC Pavement Inlay; (4) Maintaining and controlling traffic; and (5) All other work specified as part of this contract.

#### II. MATERIALS

The Department will sample and test all materials according to Department's Sampling Manual. Make materials available for sampling a sufficient time in advance of the use of the materials to allow for the necessary time for testing, unless otherwise specified in these notes.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- B. 4" PCC Pavement/24. Use PCC mixtures capable of attaining 3500 psi compressive strength and being opened to traffic within 24 hours. Maximum aggregate size shall be 1 inch. Recommended slump for PCC Pavement/24 is 3 inches. At Contractor's option with no additional cost to the Department, other high early strength rapid setting concrete mixtures approved by the Engineer may be furnished in order to comply with the time restrictions in the Traffic Control Plan. Use curing compound compatible with the thermoplastic pavement markings to be placed by the Department. Except as provided herein, 4" PCC Pavement/24 shall be according to the Special Note for 4-Inch PCC Pavement Inlay and Section 502.
- C. Synthetic Fibers. Use graded, fibrillated, polypropylene fibers. Add Synthetic Fibers at a dosage rate of 3 pounds per cubic yard to the PCC Pavement/24 mixture at the plant as recommended by the Manufacturer.
- **D. Traffic Signal Loop Detectors.** See Signal Notes on drawings.

#### III. CONSTRUCTION METHODS

- A. Maintain and Control Traffic. See Traffic Control Plan.
- B. Asphalt Milling and Texturing. Mill existing asphalt pavement to a nominal depth of 4", except construct a transition section to allow for a 4' panel with a nominal depth of 6 inches for the exit/entrance panels and any transition longitudinal panels receiving traffic, and an 8' transition (2- 4' panels) for transitioning from the 4-inch to 6-inch depth. Dimensions and location shown on the drawings are approximate only; the Engineer will determine the exact dimensions at the time of construction. Wedge transitions between milled and unmilled areas which traffic may cross with asphalt mixtures for leveling and wedging. Remove the wedge prior to placement of the PCC Inlay. See Special Note For Asphalt Milling And Texturing And Placing PCC Inlay And Liquidated Damages for additional requirements and restrictions.
- C. Traffic Signal Loop Detectors. After milling and prior to placing the PCC Inlay, install the Traffic Signal Loop Detectors as shown on the drawings through the backface of the curb. Saw cutting through the curb in lieu of drilling will be allowed. The Department will connect the loop wires to the junction box.
- D. 4" PCC Pavement Inlay. Dimensions and location shown on the drawings are approximate only; the Engineer will determine the exact dimensions at the time of construction. Install new traffic signal detector loops in the milled surface prior to placement of the PCC inlay. Prior to placement of PCC Pavement/24, remove asphalt wedges and saw cut asphalt pavement to provide a neat clean edge. The nominal depth of the PCC Pavement shall be 4 inches; except construct a transition section to provide a panel with a nominal depth of 6 inches for the exit/entrance panels and any transition longitudinal panels receiving traffic. Allow a minimum of 8 feet for transitioning from the 4-inch to 6-inch depth. Transition the finished grade of the PCC Pavement to match the adjacent pavement that is to remain in place. Do not place the PCC inlay when the temperature of either the milled surface or the ambient air temperature exceeds 89°F. Except as provided herein, construct the inlay according to Special Note for 4-Inch PCC Pavement Inlay.
- E. Joint Construction. Saw longitudinal joints to conform to the lane line configurations.
- **F. Restoration.** Restore any roadway features disturbed by the work or the Contractor's operations in like kind materials and design as directed by the Engineer.
- **G. On-Site Inspection.** Make a thorough inspection of the site prior to submitting bid and thoroughly evaluate existing conditions so that the work can be expeditiously performed after a contract is awarded. The Department will consider submission of bid as certification of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department.

- H. Property Damage. Be responsible for all damage to public and/or private property resulting from the work.
- I. Utility Clearance. It is not anticipated that utility facilities will need to be relocated and/or adjusted; however, in the event that it is discovered that the work does require that utilities be relocated and/or adjusted, the utility companies will work concurrently with the Contractor while relocating their facilities, and working days will not be charged for those days on which work on the controlling item is delayed, as provided in the Specifications. If the total delay exceeds ten working days, an extension of the specified completion date will be negotiated with the Contractor for delay to the Contractor's work.

#### IV. METHOD OF MEASUREMENT

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B. 4" PCC Pavement.** See Special Note for 4-Inch PCC Pavement Inlay.
- C. Joint Sealing. The Department will not measure sawing for payment, but shall be incidental to the 4" PCC Pavement/24.
- **D. Remove Type V Pavement Markers.** Removing Type V Pavement Markers will not be measured for payment, but shall be incidental to Asphalt Milling and Texturing.
- **E.** Leveling and Wedging. Asphalt mixtures for leveling and wedging will not be measured for payment, but shall be incidental to Asphalt Milling and Texturing.
- **F. Restoration.** Restoration of shoulders or other roadway features disturbed by the work, will not be measured for payment but shall be incidental to the 4" PCC Pavement/24.

#### IV. BASIS OF PAYMENT

No direct payment will be made other than for the bid items listed. All other items required to complete the construction shall be incidental to the bid items listed.

- A. Maintain and Control Traffic. See Traffic Control Plan.
- **B.** 4" PCC Pavement/24. Payment at the contract unit price per square yard shall be full compensation for the addition of Synthetic Fibers to the 4" PCC Pavement/24 mixture at the plant as recommended by the Manufacturer, constructing the 4" PCC inlay, sawing, and restoration.
- C. Asphalt Milling and Texturing. Payment at the contract unit price per ton shall be full compensation for removing raised pavement markers, milling and texturing the existing pavement, placing asphalt wedges to maintain traffic, and delivering the cuttings to the Hardin County Maintenance Facility.

REVISED: 1-13-04

## TRAFFIC CONTROL PLAN F-004 073-0045-007-009

Except as provided herein, maintain traffic in accordance with the 2000 Standard Specifications and the Standard Drawings, current editions. Except for the roadway and traffic control bid items listed, all items of work necessary to maintain and control traffic will be paid at the lump sum bid price to "Maintain and Control Traffic".

Contrary to Section 106.01, traffic control devices used on this project may be new, or used in like new condition, at the beginning of the work and maintained in like new condition until completion of the work.

#### PROJECT PHASING & CONSTRUCTION PROCEDURES

No lane closures will be allowed on the following days and hours:

7:00 a.m. – 8:00 p.m. April 9 – 11, 2004 April 21 – April 24, 2004 May 28 – 31, 2004 July 2 – 5, 2004 Monday through Friday
Easter Weekend
American Quilter's Society Quilt Show
Memorial Day Weekend
Independence Day Weekend

At the discretion of the Engineer, additional days and hours may be specified when lane closures will not be allowed. Maintain a minimum of one traffic lane in each direction at all times during construction. The clear lane width shall be 11 feet; however, make accommodations to allow the passage of a vehicle up to 16 feet in width. If traffic should be stopped due to construction operations, and a school bus on an official run arrives on the scene, make provisions for the passage of the bus as quickly as possible.

Install traffic signal loop detectors after milling and prior to placing the PCC Inlay.

#### LANE and SHOULDER CLOSURES

During construction of this project, close one lane, in the direction of work, using cones, barricades, or drums with flashing arrows in accordance with the Standard Drawings and these notes. Cones will not be allowed for lane or shoulder closures when difference in elevation between lanes or pavement/shoulder edge drop off is 4" or greater in depth. The lengths of lane closures shall be only that needed for actual operations and shall be left in place only during working hours or the minimum time required for PCC pavement curing.

#### **SIGNS**

Contrary to Section 112.04.02 and 112.04.03, Low Shoulder signs will not be measured for payment, but will be incidental to Maintain and Control Traffic. Contrary to section 112.04.02, only long term signs (signs intended to be continuously in place for more than 3 days) will be measured for payment; short term signs (signs intended to be left in place for 3 days or less) will not be measured for payment but will be incidental to Maintain and Control Traffic. Individual signs will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged signs or signs directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

#### **BARRICADES**

Barricades used in lieu of barrels and cones for channelization or delineation will be incidental to Maintain and Control Traffic according to Section 112.04.01.

Barricades used to protect pavement removal areas will be bid as each according to Section 112.04.04. Individual barricades will be measured only once for payment, regardless of how many times they are set, reset, removed, and relocated during the duration of the project. Replacements for damaged barricades or barricades directed to be replaced by the Engineer due to poor legibility or reflectivity will not be measured for payment.

#### VARIABLE MESSAGE SIGNS

If deemed necessary by the Engineer, variable message signs will be installed, operated and maintained by the Department.

#### TRAFFIC COORDINATOR

Designate an employee to be traffic coordinator. In addition to the requirements of Section 112.03.10, during any period when a lane or shoulder closure is in place, the Traffic Coordinator shall arrange for personnel to be present on the project at all times to inspect the traffic control and to maintain the signing and devices. The project personnel shall have access on the project to a radio or telephone to be used in case of emergencies or accidents.

#### PAVEMENT STRIPING

Temporary and permanent pavement striping shall be in accordance with Section 112, except that:

- 1. Permanent or temporary striping shall be in place prior to opening a lane to traffic; and
- 2. Edge lines will be required for temporary striping; and
- 3. Permanent striping shall be 4" Type I Durable Striping Tape.

The Department will place stop bars, cross walks, and turn arrows. Notify the Engineer 7 calendar days prior to placing the PCC Inlay. The Engineer will coordinate the Department's operations with the Contractor's work.

#### TRAFFIC SIGNALS

During construction, temporarily relocate and/or cover existing signal heads according to Section 112.03.13 as required by the traffic control scheme in use. Temporary relocation of each signal head will only be measured once for payment regardless of the number of times the signal head is relocated.

Prior to milling, turn off the traffic signal detection devices and adjust signal timing. Install new Traffic Signal Detector Loops after milling and prior to placement of the PCC Inlay. After placing the PCC Inlay, readjust the signal timing. Obtain the Engineer's prior approval for signal timing for each phase of the work.

#### PAVEMENT EDGE DROP-OFFS

A pavement edge between opposing directions of traffic or lanes that traffic is expected to cross in a lane change situation shall not have an elevation difference greater than 1½ inches. Warning signs (MUTCD W8-11 or W8-9A) shall be placed in advance of and throughout the drop-off area. Dual posting on both sides of the traveled way shall be required. All transverse transitions between milled and unmillilled areas which traffic may cross shall be wedged with asphalt mixture for leveling and wedging. The wedges shall be removed prior to placement of the PCC inlay.

Pavement edges that traffic is not expected to cross, except accidentally, shall be treated as follows:

Less than 2 inches – No protection required. Place Low Shoulder Signs in advance of the drop-off.

2 inches to 4 inches – Place plastic drums, vertical panels, or barricades every 50 feet. Cones may be used in place of plastic drums, panels, and barricades during daylight working hours. If traffic is being maintained less than 10 feet from the drop-off, wedge with

asphalt mixtures for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

4 inches or greater – Protect with a lane or shoulder closure using drums or barricades; cones will not be allowed for lane or shoulder closures for drop-offs 4 inches or greater. Drum or barricade spacing shall not exceed 25 feet. Place a Type III Barricade facing oncoming traffic at the drop off until PCC Inlay is constructed in excavated area. If traffic is being maintained less than 10 feet from the drop-off, wedge with asphalt mixtures for leveling and wedging with a 1:1 or flatter slope in daylight hours, or 3:1 or flatter slope during nighttime hours, when work is not active in the drop-off area.

## SPECIAL NOTE FOR ASPHALT MILLING AND TEXTURING AND PLACING PCC INLAY AND LIQUIDATED DAMAGES FOO 4 073 -0045 - 007 -009

Contrary to Section 408 of the 2000 Standard Specifications, the material obtained from the milling operations shall become the property of the Department. Deliver this material to the State Maintenance facility in McCracken County.

Begin PCC Inlay operations immediately after commencement of the asphalt milling operation. Additional asphalt milling will be allowed in areas necessary to complete installation of Traffic Signal Loop Detectors. Mill, install Traffic Signal Loop Detectors, and place the proposed phase of PCC Inlay, and temporary striping and open all lanes to traffic for the current phase of construction in one weekend period between 8:00 p.m. Friday and 7:00 a.m. Monday. If proposed phase of inlay operations are not completed within this time period, additional liquidated damages in the amount of \$1,000 per day will be assessed for each day, or part of a day, the PCC Inlay and temporary striping remains uncompleted after 7:00 a.m. Monday. Permanent striping, and Type V Pavernent Markers may be constructed during allowable hours after the PCC Inlay is initially reopened to traffic.

Additional liquidated damages in the amount of \$1,000 per day will be assessed for each day, or part of a day, a lane closure remains in place during prohibited periods specified in the Traffic Control Plan, excluding delays caused by inclement weather. If work is delayed by inclement weather, the work required to allow the lane closure to be removed shall be resumed immediately as soon as weather permits.

All liquidated damages will be applied accumulatively.

All other applicable portions of Section 108 apply.

# NOTES BID ITEM

The Standard Specifications for Road and Bridge Construction, 2000 edition, and other special notes and specifications will apply on this project.

Conduit, shall include, furnishing and installing specified conduit in accordance with specifications. This item includes conduit fittings, expansion joints, clamps, and weatherheads.

Junction box shall include furnishing and installing specified junction box in accordance with the specifications. This item includes concrete (if required), #57 aggregate, conduit fittings and backfilling and restoration of disturbed areas to the satisfaction of the resident engineer.

Trenching and backfilling shall include excavation, backfilling, and the restoration of disturbed areas to original condition. Incidental to this item shall be furnishing and installing underground utility warning tape.(IP required).

Wire or cable shall include furnishing and installing specified wire or cable within conduit, saw slot, or overhead as indicated on the detail sheets. Incidental to this item shall be the furnishing and installing of splice boots, cable rings or other hardware required for installing cable. The contractor shall install all cable or wire runs splice-free from the controller to each device the cable or wire is feeding. Exceptions to this must be approved by the engineer or as specified on the plans.

1 Loop saw slot and fill shall include sawing, cleaning and filling induction loop saw slot with loop sediant material or sultable to keep preformed loop in place before final paving.

Preformed loop shall include furnishing and installing specified preformed loop in accordance with the specifications.

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Contractor shall contact all utility companies and the District Utility Agent before any holes are dug or poles are set to insure proper clearance and shielding from existing or proposed utility lines.

Contractor shall label all loop ends and cables inside the cabinet as designated on the plans. Payment for this shall be incidental to the cost of the project.

SIGNAL BID ITEMS

SPECTAL NOTES FOR

TRAFFEC INDUCTANCE LOOPS

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1. APPLICABLE DRAWINGS AND PLANS
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3. NATIONAL ELECTRICAL CODE, LATEST ISSUE
3. NATIONAL ELECTRON PAPETIC CONTROL, DESCRIPE
4. MANUAL ON UNITOWN PAPETIC CONTROL, DESCRIPE
5. STANDARDS OF THE UTILITY COMPANY SERVING THE INSTALLATION

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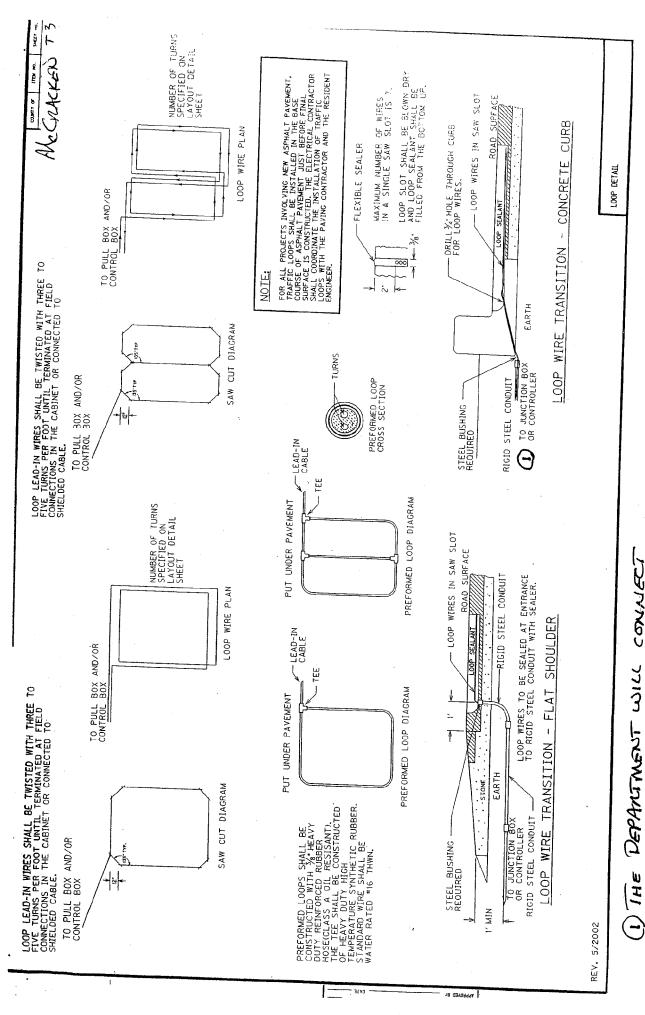
CLACKER

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL ELECTRICAL SERVING THE INSTALLATION AND PAY ALL FEES REQUIRED.

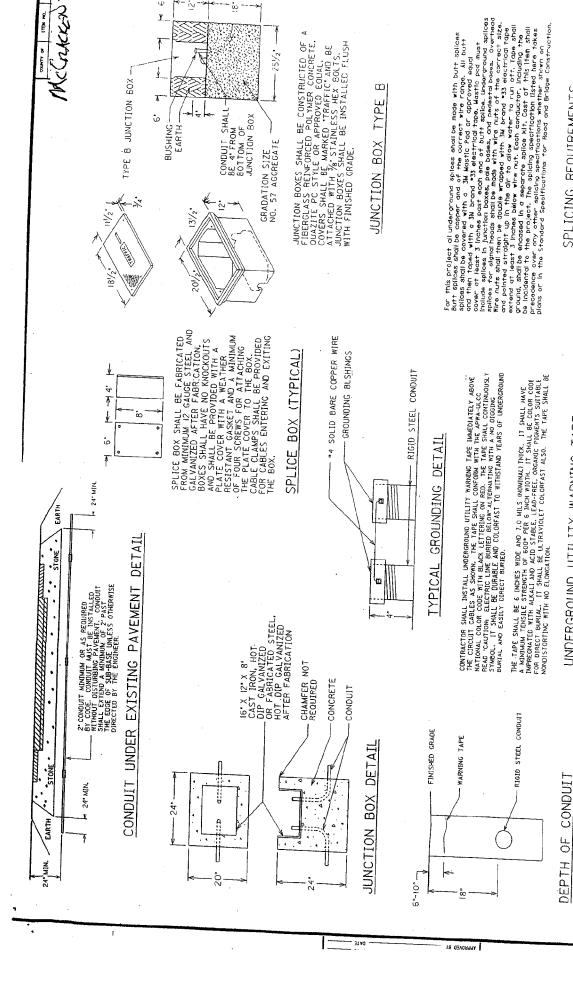
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SIGNAL MOTES



THE LOOP WINE TO THE JUNCTION BOX



JUNCTION BOX/CONDUIT DETAILS

SPLICING REQUIREMENTS

TAPE

UNDERGROUND UTILITY WARNING

6/2002

REV.

#### TRANSPORTATION CABINET

Department of Highways FRANKFORT, KY 40622

Sheet No:

1

MCCRACKEN COUNTY FD04 073 0045 007-009

PCN: 03-0787

Letting: 12/12/2003

### THE BIDDER MUST MAKE THE EXTENSIONS AND ADDITIONS SHOWING TOTAL AMOUNT BID USING FIGURES ONLY

Item   No.	Code   No.	ltem	Approximate   Quantity	   Unit		Unit Price Dollars	·   	Amount Dollars
1	2677	ASPH PAVE MILLING & TEXTURING	2,807.00	TON				-
2	7595	PCCP/24-4" NON-REINF	12,756.00	SQYD		*		
		PAVE STRIPING-PERM PAINT-4 IN (DELETED: 1-13-04)			[	-	   	•
3	6510	PAVE STRIPING-TEMP PAINT-4 IN	11,150.00	LIN FT		•		
		PAVEMENT MARKER TYPE V-BY (DELETED: 1-13-04)				•		
. 4	9171	PREFORMED QUADRAPOLE LOOPS (HOME RUN LEAD IN)	950.00	LIN FT		•		
5	2014	BARRICADE-TYPE III (REVISED: 1-13-04)	12.00	EACH		•		•
6	2562	SIGNS	600.00	SQFT				
7	2775	FLASHING ARROW	4.00	EACH		•		•
8	2650	MAINTAIN AND CONTROL TRAFFIC	1.00	LP SUM				
9	6554	PAVE STRIPING-DUR TY 1-4 IN W (ADDED: 1-13-04)	7,400.00	LIN FT				•
10	6555   	PAVE STRIPING-DUR TY 1-4 IN Y (ADDED: 1-13-04)	3,750.00	LIN FT				,
11	2676	MOBILIZATION FOR MILL & TEXT	1.00	LP SUM				•
12	2569	DEMOBILIZATION	1.00	LP SUM		,		
13	1	TOTAL BID	<u> </u>	1	1		\$	